

# PRODUCT INFORMATION PACKET

Model No: KS10P018A40U43XSX

Catalog No: AL08D3540MFAFTOAOO

10.0 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S3 Duty, KS180L1 Frame, 40 CDF,  
6 Start/Hr., TEFC



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### Nameplate Specifications

|                               |                      |                            |                                    |
|-------------------------------|----------------------|----------------------------|------------------------------------|
| Output HP                     | <b>13.50 Hp</b>      | Output KW                  | <b>10.0 kW</b>                     |
| Frequency                     | <b>50 Hz</b>         | Voltage                    | <b>415 V</b>                       |
| Current                       | <b>23.5 A</b>        | Speed                      | <b>720 rpm</b>                     |
| Phase                         | <b>3</b>             | Duty                       | <b>S3</b>                          |
| Frame                         | <b>KS180L1</b>       | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection            | <b>No Protection</b> | Ambient Temperature        | <b>45 °C</b>                       |
| Drive End Bearing Size        | <b>6310 ZZ</b>       | Opp Drive End Bearing Size | <b>6310 ZZ</b>                     |
| UL                            | <b>No</b>            | CSA                        | <b>No</b>                          |
| CE                            | <b>No</b>            | IP Code                    | <b>55</b>                          |
| CDF                           | <b>40 %</b>          | Start/Hr                   | <b>6</b>                           |
| RA                            | <b>25.7 A</b>        | RV                         | <b>235 V</b>                       |
| Insulation class Stator/Rotor | <b>F/F</b>           | Temp. Rise Stator/Rotor    | <b>75/75 K</b>                     |
| Stator Connection             | <b>Delta</b>         | Rotor Connection           | <b>Star</b>                        |
| Efficiency Class              | <b>Standard</b>      |                            |                                    |

### Technical Specifications

|                       |                        |                       |                                 |
|-----------------------|------------------------|-----------------------|---------------------------------|
| Electrical Type       | <b>Slipring</b>        | Starting Method       | <b>Rotor resistance starter</b> |
| Rotation              | <b>Bi-Directional</b>  | Mounting              | <b>IMB3</b>                     |
| Motor Orientation     | <b>Horizontal</b>      | Drive End Bearing     | <b>Antifriction</b>             |
| Opp Drive End Bearing | <b>Antifriction</b>    | Frame Material        | <b>Cast Iron/Fabricated</b>     |
| Shaft Type            | <b>Single Cylinder</b> | Overall Length        | <b>875.00 mm</b>                |
| Frame Length          | <b>875.00 mm</b>       | Shaft Diameter        | <b>48.000 mm</b>                |
| Shaft Extension       | <b>110 mm</b>          | Assembly/Box Mounting | <b>Top</b>                      |
| Rotor GD2             | <b>1.17 kg·m²</b>      | Pull Out Torque       | <b>3.2</b>                      |
| Connection Drawing    | <b>DP2172</b>          | Outline Drawing       | <b>CM1383</b>                   |





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| P    | P    | n     | POT  | T    | U   | f    | I    | RA   | RV  | CDF | Duty | No. of Starts/Hr. | Frame   |
|------|------|-------|------|------|-----|------|------|------|-----|-----|------|-------------------|---------|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A]  |      |     | %   |      |                   |         |
| 10   | 13.5 | 720   | 3.2  | 424  | 415 | 50   | 23.5 | 25.7 | 235 | 40  | S3   | 6                 | KS180L1 |

|                                  |           |   |                          |
|----------------------------------|-----------|---|--------------------------|
| Motor type                       | Slipring  | Degree of protection                      | IP-55                    |
| Enclosure                        | TEFC      | Motor weight - approx.                    | 250 kg                   |
| Frame Material                   | -         | Gross weight- approx.                     | kg                       |
| Mounting type                    | IMB3      | Motor GD2                                 | 1.17 kgm <sup>2</sup>    |
| Cooling method                   | IC411     | Vibration level                           | As per IS:12075 mm/s     |
| Voltage variation                | +/-10%    | Noise level ( 1meter distance from motor) | As per IS:12065 dB(A)    |
| Frequency variation              | +/-5%     | Starting method                           | Rotor resistance starter |
| Combined variation               | 10%       | Coupling                                  | Direct / Gearbox         |
| Insulation class                 | F/F       | Direction of rotation                     | Bi-directional           |
| Ambient temperature              | 45        | Paint shade                               | RAL5011                  |
| Temperature rise (by resistance) | 75/75     | Type of Terminal Box                      | Standard                 |
| Altitude above sea level         | Upto 1000 | Terminal box position                     | Top                      |
| Efficiency                       |           | Max. Cable size                           | Refer to TBA drg.        |
| Power Factor                     |           | Bearing type                              | Antifriction             |
| Stator Connection                | Delta     | DE Bearing                                | 6310 ZZ                  |
| Rotor Connection                 | Star      | NDE Bearing                               | 6310 ZZ                  |
|                                  |           | Type of Lubrication                       | Grease                   |

**NOTE**

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.